

Amendments to the Specification:

Please amend paragraph [0001] as follows:

[0001] The invention relates to a fuel cell system for mobile use ~~in accordance with the preamble of claim 1, having a fuel cell unit for generating electrical energy and an adsorption accumulator, assigned to the fuel cell unit, for releasing heat~~. The invention also relates to a method for operating a fuel cell system of this type.

Please add the following new heading before paragraph [0002]:

BACKGROUND

Please add the following new heading before paragraph [0007]:

SUMMARY OF THE INVENTION

Please delete paragraph [0008].

Please amend the following paragraphs:

[0011] The use of an adsorption accumulator ~~may provide~~ provides a heat store with a high energy density and storage without heat losses which advantageously does not require any additional components, which would likewise represent energy consumers, as would be the case, for example, with an electrical heating system, a catalytic burner, stationary heating systems, etc. The fuel cell unit and any further components of the fuel cell system can be reliably and economically heated during a cold start, since the waste heat from the fuel cell system is used to charge the adsorption accumulator. The high performance of the coolant is in this way retained. The duration of heat storage is not subject to any time limitation and is independent of the ambient temperature.

[0012] On account of the increased energy density of the adsorption accumulator compared to other heat stores, which may amount to an increase of approximately 2.5 to 5 times, it is possible to save volume and weight for the heat store or the heat storage components. Further potential savings on volume and weight result from the loss-free thermochemical storage of heat

inherent to the adsorption accumulator. The adsorption accumulator therefore can make makes do with less installation space. The storage materials or media which are used for the adsorption accumulator and preferably comprise metal hydrides, silica gels and/or zeolites, are neither corrosive, contaminating nor environmentally harmful.

[0013] The fuel cell system according to the invention - in particular also with regard to the water balance - ~~is~~ may be an open system which involves both energy and mass exchange with the environment. In particular, water ~~is~~ may be exchanged with the environment in the form of water vapor. There is no need for water for discharging the adsorption accumulator to be made available in an additional reservoir. As a result, freezing of the fuel cell system at temperatures below freezing point ~~is~~ advantageously may be prevented, and the system can be started even at temperatures below freezing point.

Please add the following new heading before paragraph [0015]:

BRIEF DESCRIPTION OF THE DRAWINGS

Please replace paragraph [0015] with the following amended paragraph:

[0015] Further advantageous configurations of the invention will ~~emerge from the subclaims and the exemplary embodiments~~ be explained below with reference to the drawings, in which:

Please add the following new heading before paragraph [0018]:

DETAILED DESCRIPTION

Please replace the heading on top of page 8 with the following amended heading:

~~Patent claims~~ WHAT IS CLAIMED IS: